

AMENDMENTS TO THE DRAWINGS

The attached sheet of drawings includes changes to Fig. 8(a). This sheet, which includes Figs. 8(a), 8(b) and 8(c), replaces the original sheet including Figs. 8(a), 8(b) and 8(c). In Fig. 8(b), previously omitted element Array Gain Plot has been added.

Attachment: Replacement Sheet

Annotated Sheet Showing Changes

REMARKS

Claims 1-4, 7, 8, 11-14, 17, 18, and 21-35 are pending in the present application. Claims 1-5, 7, 8, 11-14, 17 and 18 have been amended to better describe the present invention. Claims 5, 6, 9, 10, 15, 16, 19 and 20 have been canceled. Claims 21-35 are new.

1. Examiner objected to portions of the disclosure. Applicants have amended the disclosure and request that these objections be withdrawn.
2. Examiner objected to Fig. 8(b). Applicants have amended Fig. 8(b) to include text to describe the plot as an Array Gain plot. Applicants request that this objection be withdrawn.
3. Claim 12 has been objected to because of informalities. Claim 12 has been amended to depend from claim 11. Applicants request that this objection be withdrawn.
4. The Examiner has rejected claims 1-3, 5-6, 10-13, 15-16 and 20 under 35 U.S.C. 102(b) as being anticipated by Baumuel (6,026,693).

Independent claims 1 and 11 have been amended to clarify the Applicants' claimed invention. Specifically, claims 1 and 11 include the limitation of "using a calibration correction function based on non-dimensional parameters that characterize the array of sensors, the pipe, and the fluid flowing in the pipe to determine the average flow rate." Claims 1 and 11 further include an array of sensors for measuring unsteady pressures wherein each sensor is spaced at different axial locations along the pipe. Baumuel does not show, teach or suggest a flow meter or method having such features or method as claimed by Applicants.

Applicants respectfully traverse Examiner's rejection for at least the reasons provided above. Therefore, Applicants respectfully request that these claims be reconsidered and allowed.

Claims 2, 3, 5-6, 10, 12, 13, 15-16 and 20 variously depend on independent claims 1 or 11, and therefore are not anticipated by Baumuel for at least the reasons provided hereinbefore, and it is respectfully requested that these claims be allowed.

5. The Examiner has rejected claims 1, 6, 8, 9, 11, 16, 18, and 19 under 35 U.S.C. 102(b) as being anticipated by Lynnworth (U.S. 5,179,862).

Independent claims 1 and 11 have been amended to clarify the Applicants' claimed invention. Specifically, claims 1 and 11 include the limitation of "using a calibration correction function based on non-dimensional parameters that characterize the array of sensors, the pipe, and the fluid flowing in the pipe to determine the average flow rate." Claims 1 and 11 further include an array of sensors for measuring unsteady pressures wherein each sensor is spaced at different axial locations along the pipe. Lynnworth does not show, teach or suggest a flow meter or method having such features or method as claimed by Applicants.

Applicants respectfully traverse Examiner's rejection for at least the reasons provided above. Therefore, Applicants respectfully request that these claims be reconsidered and allowed.

Claims 6, 8, 9, 16, 18, and 19 variously depend on independent claims 1 or 11, and therefore are not anticipated by Lynnworth for at least the reasons provided hereinbefore, and it is respectfully requested that these claims be allowed.

6. The Examiner has rejected claims 1, 9, 11, and 19 under 35 U.S.C. 102(e) as being anticipated by Gimson (US 2004/0149027).

Independent claims 1 and 11 have been amended to clarify the Applicants' claimed invention. Specifically, claims 1 and 11 include the limitation of "using a calibration correction function based on non-dimensional parameters that characterize the array of sensors, the pipe, and the fluid flowing in the pipe to determine the average flow rate." Claims 1 and 11 further include an array of sensors for measuring unsteady pressures wherein each sensor is spaced at different axial locations along the pipe. Gimson does not show, teach or suggest a flow meter or method having such features or method as claimed by Applicants.

Applicants respectfully traverse Examiner's rejection for at least the reasons provided above. Therefore, Applicants respectfully request that these claims be reconsidered and allowed.

Claims 9 and 19 variously depend on independent claims 1 or 11, and therefore are not anticipated by Gimson for at least the reasons provided hereinbefore, and it is respectfully requested that these claims be allowed.

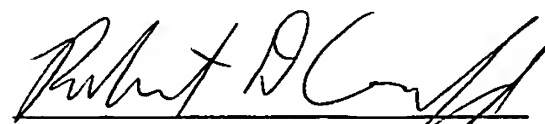
7. Claims 4, 7, 8, 14, 17 and 18 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Baumoel (US 6,026,693) in view of Fernald (US 2004/0168522). Claims 4, 7, 8, 14, 17 and 18 variously depend on independent claims 1 and 11, and therefore are not rendered obvious by Baumoel in view of Fernald. It is respectfully requested that claims 4, 7, 8, 14, 17 and 18 be reconsidered and allowed for at least the reasons provided hereinbefore.

8. Newly added claims 21-35 variously depend on independent claims 1 or 11, and therefore are allowable for at least the reasons provided hereinbefore.

9. In view of the foregoing, it is respectfully requested that the application be reconsidered and allowed. If the Examiner is not prepared to allow all the claims in view of the discussion herein, Applicants hereby respectfully request a phone interview with the Examiner at the Examiner's earliest convenient. Applicants' counsel can be reached at 203-626-3502 (direct dial) between the hours of 8:00 a.m. and 5:00 p.m., or by E-mail at rcrawford@cidra.com.

10. A petition for a two-month extension of time under 37 CFR 1.136 is submitted herewith. Please charge the fees of **\$1020.00** for the three (3) month extension of time and **\$350.00** for the seven (7) additional claims to Deposit Account No. 50-0260 Order No. CC-0681. Any deficiency or overpayment should be charged or credited to this deposit account.

Respectfully submitted,
ROTHMAN ET AL.



Robert D. Crawford
Registration No. 38,119

CiDRA Corporation
50 Barnes Park North
Wallingford, CT 06492
Telephone: (203) 626-3502

Dimensional k- ω plot

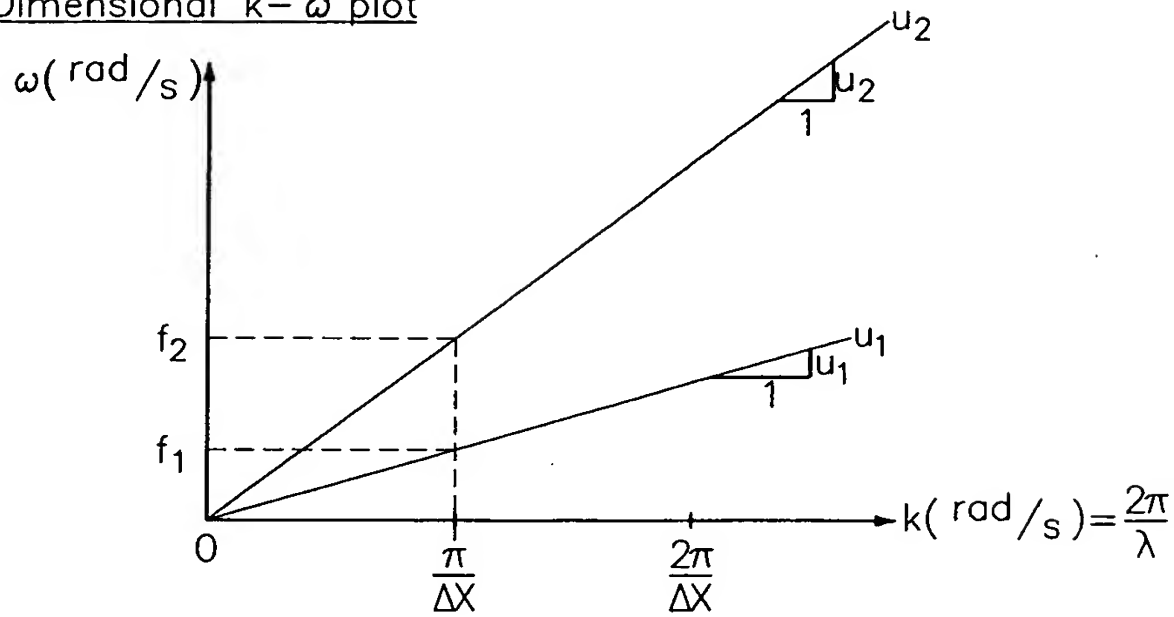


FIG. 8(a)

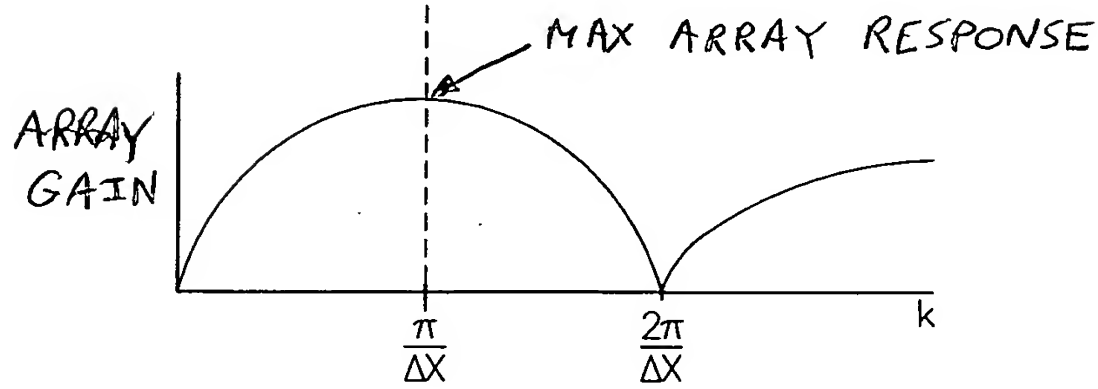


FIG. 8(b)

Non-Dimensional k- ω plot

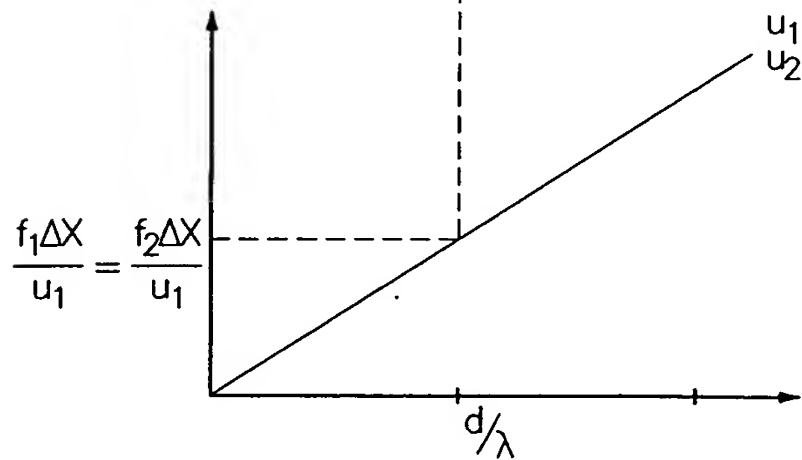


FIG. 8(c)

FIG. 8